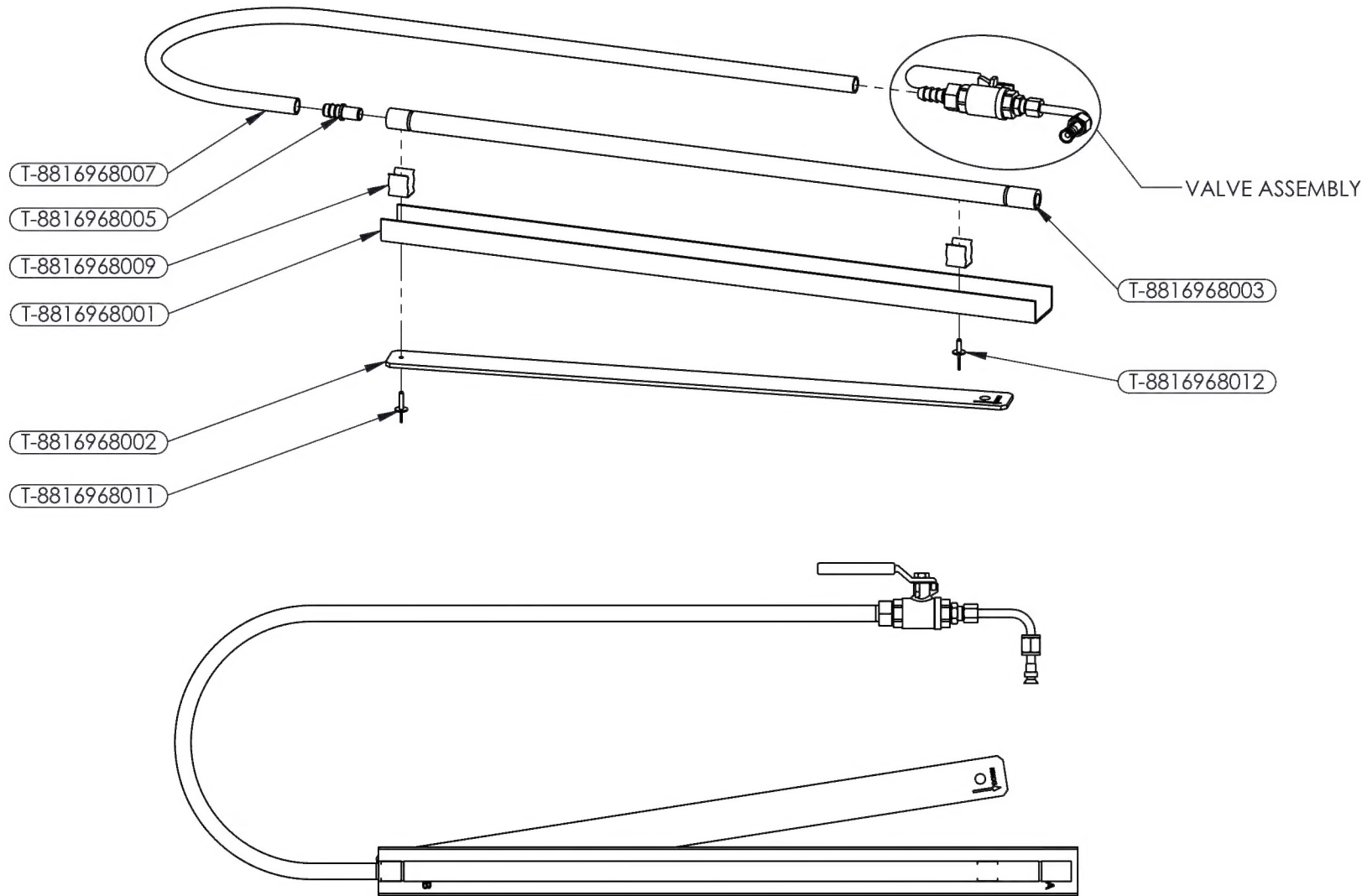
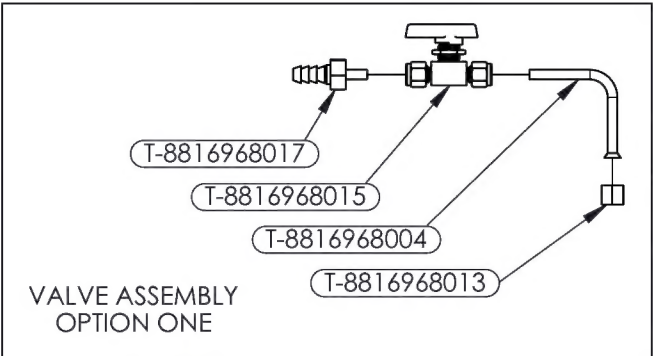


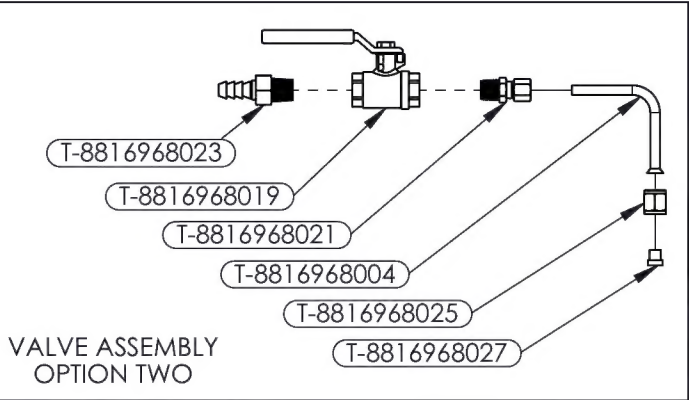
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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		CORRECTED DIMENSIONS ON 004	5/19/2003		
2		SPRING CLIP CHANGED TO SEASTROM	6/16/2003		
3		IMPLEMENTED NEW TEMPLATE, AND ADDED ASSEMBLY VERSION ONE. ADDED OPTIONAL PARTS FOR VERSION ONE TO B.O.M. ADDED Pg. 1 ASSEMBLY VIEW, REORGANIZED ALL PAGES AND ADDED Pg. 6 ADDED RIVETS B/O TO B.O.M. ADDED 013 TUBING NUT VIEW FOR MACHINING.	7/28/2010	WP	
4		CH'D 8816968013 TUBING NUT FROM B/O TO MANUFACTURE PER R.W.	10/8/2010	RJC	
5	14-0171	REDRAWN IN SOLIDWORKS. CH'D TITLEBLOCK WAS RED BARN IS DART. UPDATED P/N'S. ADDED T-TO ALL P/N'S. T-8816968001 ADDED DIM 2X R.06. T-8816968002 CH'D DIMS WAS 1.181 IS (.1250), WAS .118 IS (.125). ADDED DIM 2X .625. T-8816968003 CH'D B/O INFO WAS Ø1/2 O.D. X Ø3/8 I.D. X 21-5/8 MCMASTER-CARR #8532K13 IS Ø5/8 O.D. X Ø3/8 I.D. X 21-5/8 MCMASTER-CARR #8532K14. CH'D DIMS WAS Ø.394 IS (Ø.375). WAS Ø.551 IS (Ø.625). T-8816968004 CH'D B/O INFO WAS Ø1/4 X 4-3/8 IS Ø1/4 X .049 WALL X 4-3/8. ADDED NOTE TO ATTACH NUT & SLEEVE BEFORE FLARING FOR OPTIONS 1 & 2. T-8816968005 CH'D DESCRIPTION WAS ADAPTER IS BARBED HOSE ADAPTER. T-8816968009 CH'D B/O INFO WAS #4528-56-62-2-C IS #4528-56-62-2-C2. T-8816968013 CH'D DIM WAS .561 HEX IS (.563 HEX). ADDED MISSING DIM 37". T-8816968015 CH'D B/O INFO WAS #SS-4P4T IS #SS-4P-4T-BK. CH'D TOLERANCE ON NON-CRITICAL DIMENSIONS.	10/8/2014	DPD	JAG



VALVE ASSEMBLY
OPTION ONE



VALVE ASSEMBLY
OPTION TWO

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			T-8816968001	1	FORMED CHANNEL	5052	ARCH 1/16 WALL X 3/4 X 1-1/2 (MCMASTER-CARR #4592T18)	2
			T-8816968002	1	FLAT BAR	6061	1/8 X 1-1/4 X 19-3/4 (MCMASTER-CARR #8975K517)	3
			T-8816968003	1	CLEAR TUBE	ACRYLIC	Ø5/8 O.D. X Ø3/8 I.D. X 21-5/8 MCMASTER-CARR #8532K14 (MODIFIED)	4
			T-8816968004	1	TUBING	S.S. SEAMLESS	Ø1/4 X .049 WALL X 4-3/8	5
			T-8816968005	1	BARBED HOSE ADAPTER	BRASS	Ø3/8 MCMASTER-CARR #44555K184 (MODIFIED)	6
		B/O	T-8816968007	1	CLEAR TUBEING	NSF-51, NSF-61	Ø3/8 I.D. X Ø1/2 O.D. X 32 KURI-TECH #K010-0608X100	1
		B/O	T-8816968009	2	SPRING ACTION CLIP	SPRING STEEL	.61 X .625 X .71 SEASTROM #4528-56-62-2-C2	1
		B/O	T-8816968011	1	RIVET	ALUMINUM	Ø1/8 X 1/2 MCMASTER-CARR #97447A317	1
		B/O	T-8816968012	1	RIVET	ALUMINUM	Ø1/8 X 3/8 MCMASTER-CARR #97447A315	1
			T-8816968013	1	TUBING NUT	303/304 S.S.	9/16 HEX MCMASTER-CARR #89665K69	7
		B/O	T-8816968015	1	QUARTER-TURN INSTRUMENT PLUG VALVE	S.S.	Ø1/4 IN X Ø1/4 OUT SWAGELOK #SS-4P-4T-BK	1
		B/O	T-8816968017	1	HOSE CONNECTOR	S.S.	Ø3/8 X Ø1/4 SWAGELOK #SS-6-HC-A-401	1
		B/O	T-8816968019	1	JOMAR VALVE	BRASS	1/4NPT IN X 1/4NPT OUT MCMASTER-CARR #47865K21	1
		B/O	T-8816968021	1	COMPRESSION FITTING	BRASS	Ø1/4 TUBE X 1/4 NPTF MCMASTER-CARR #50915K315	1
		B/O	T-8816968023	1	THREADED HOSE CONNECTOR	BRASS	Ø3/8 X 1/4-18 NPT MCMASTER-CARR #5346K18	1
		B/O	T-8816968025	1	AN FLARED TUBE NUT	S.S.	7/16-20 MCMASTER-CARR #5482K75	1
		B/O	T-8816968027	1	AN FLARED TUBE SLEEVE	S.S.	Ø1/4 MCMASTER-CARR #5482K82	1

UNDER REVIEW
URF 19-594 19.02.15 (MB)

NOTE:
PARTS T-8816968001 & T-8816968002 MUST BE
ABLE TO PIVOT AFTER RIVETING.

TITLE

FUEL INJECTION PERMEABILITY TESTER

DWG NO.

T-8816968000

REV

5

MAT'L

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
.XXX ± .005 FRACTIONS ± 1/8
.XX ± .01 ANGLES ± 5°
.X ± .1
1. BREAK ALL SHARP EDGES .015 x 45°
OR .015R
2. DIMENSIONAL LIMITS APPLY AFTER
PLATING

DRAWN BY:

COLE

APPROVED

D Weil

TREAT

FINISH

SPEC

USED ON MODEL

TURBOMECA ARRIEL ENGINES

SCALE

1:5

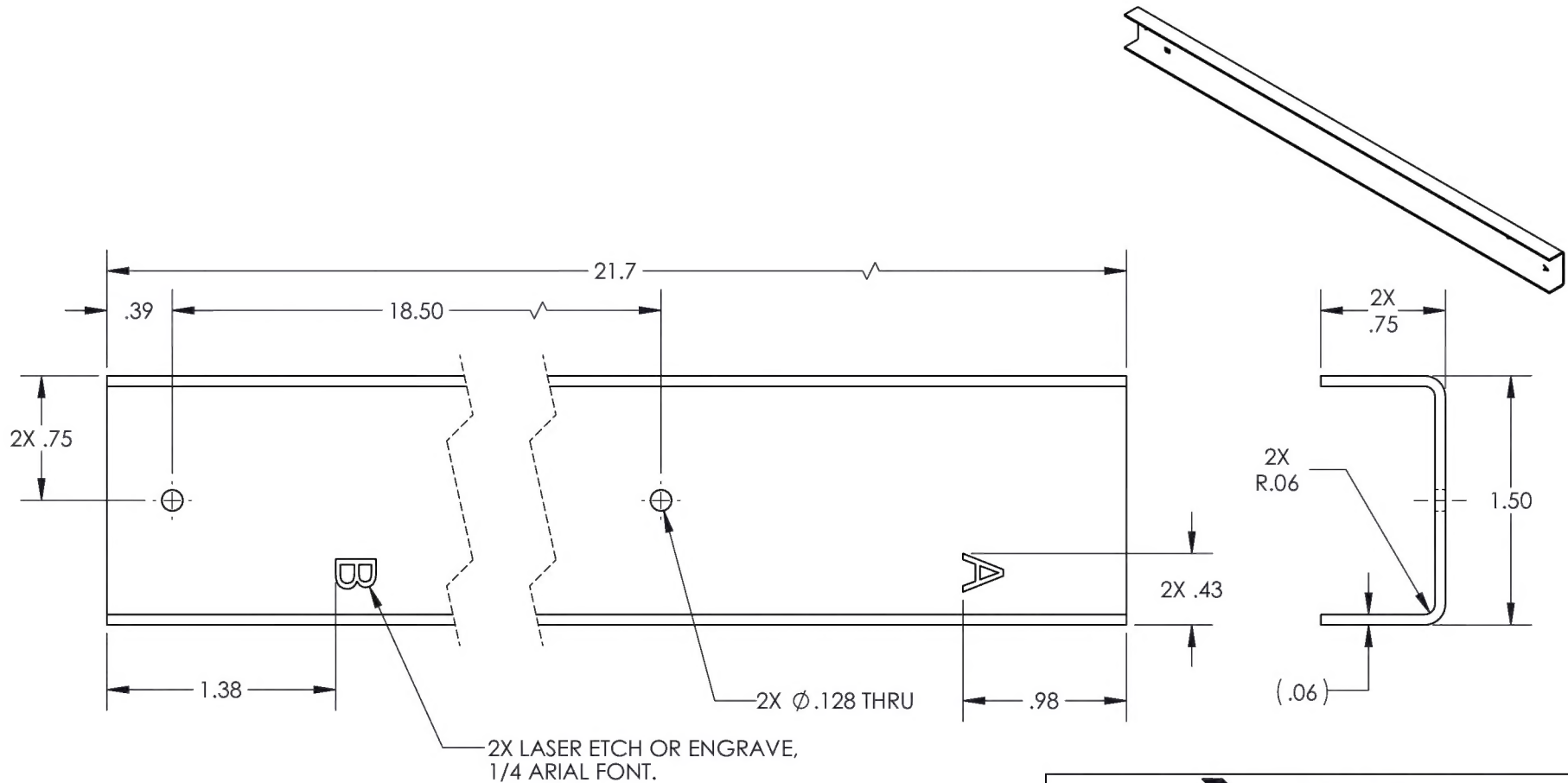
DATE

6/17/2003

SHEET 1 OF 7

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
5	14-0171	T-8816968001 ADDED DIM 2X R.06.	10/8/2014	DPD	JAG



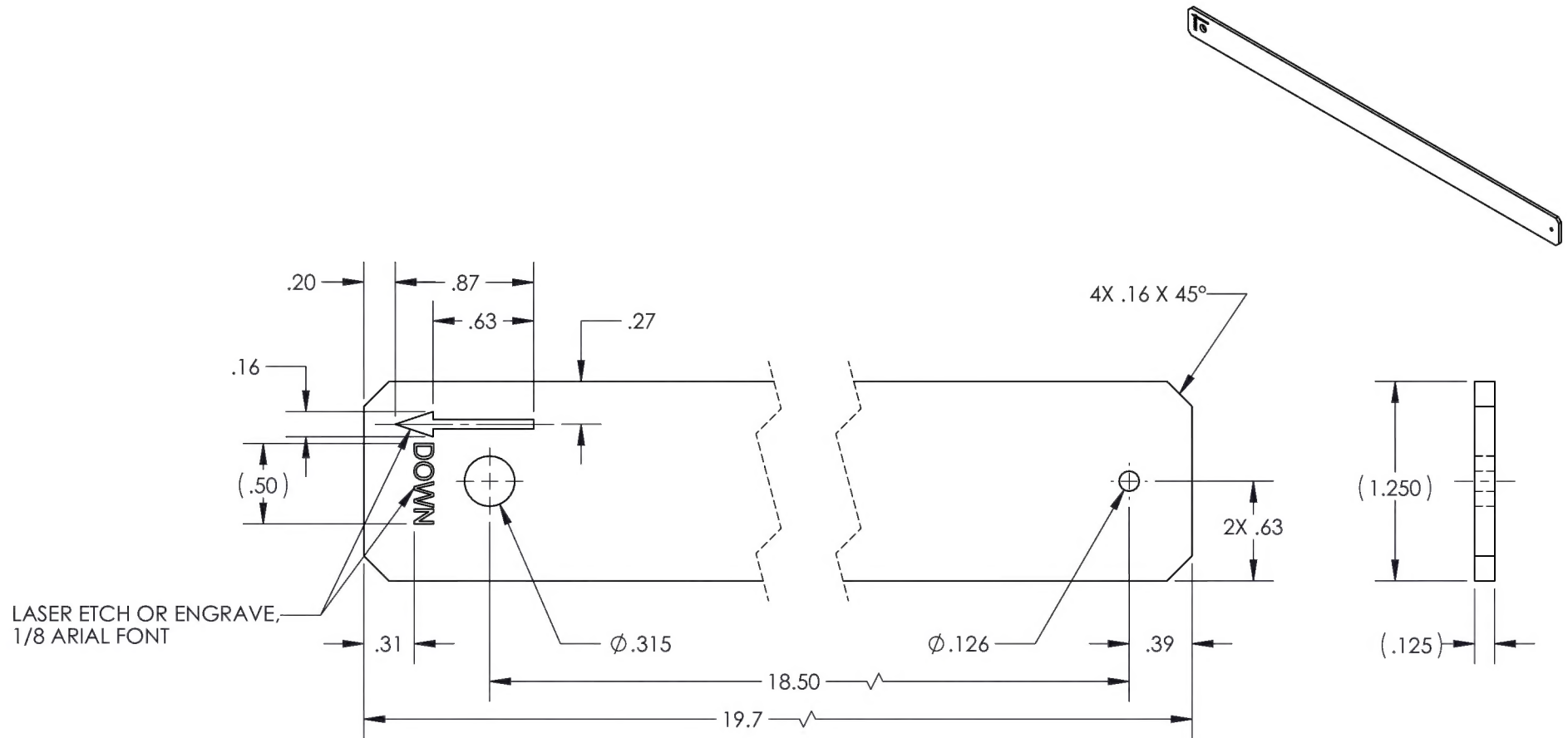
UNDER REVIEW
URF 19-594 19.02.15 (MB)

(T-8816968001)
FORMED CHANNEL

DART AEROSPACE	
TITLE FUEL INJECTION PERMEABILITY TESTER	
DWG NO. T-8816968000	REV 5
MAT'L 5052	DRAWN BY: COLE
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH BLACK ANODIZE
.X ± .1	SPEC MIL-A-8625F, TYPE II, CLASS II
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	TURBOMECA ARRIEL ENGINES
SCALE 1:1	DATE 6/17/2003
SHEET 2 OF 7	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
5	01-0171	T-8816968002 CH'D DIMS WAS 1.181 IS (.1250), WAS .118 IS (.125). ADDED DIM 2X .625.	10/8/2014	DPD	JAG



UNDER REVIEW
URF 19-594 19.02.15 (MB)

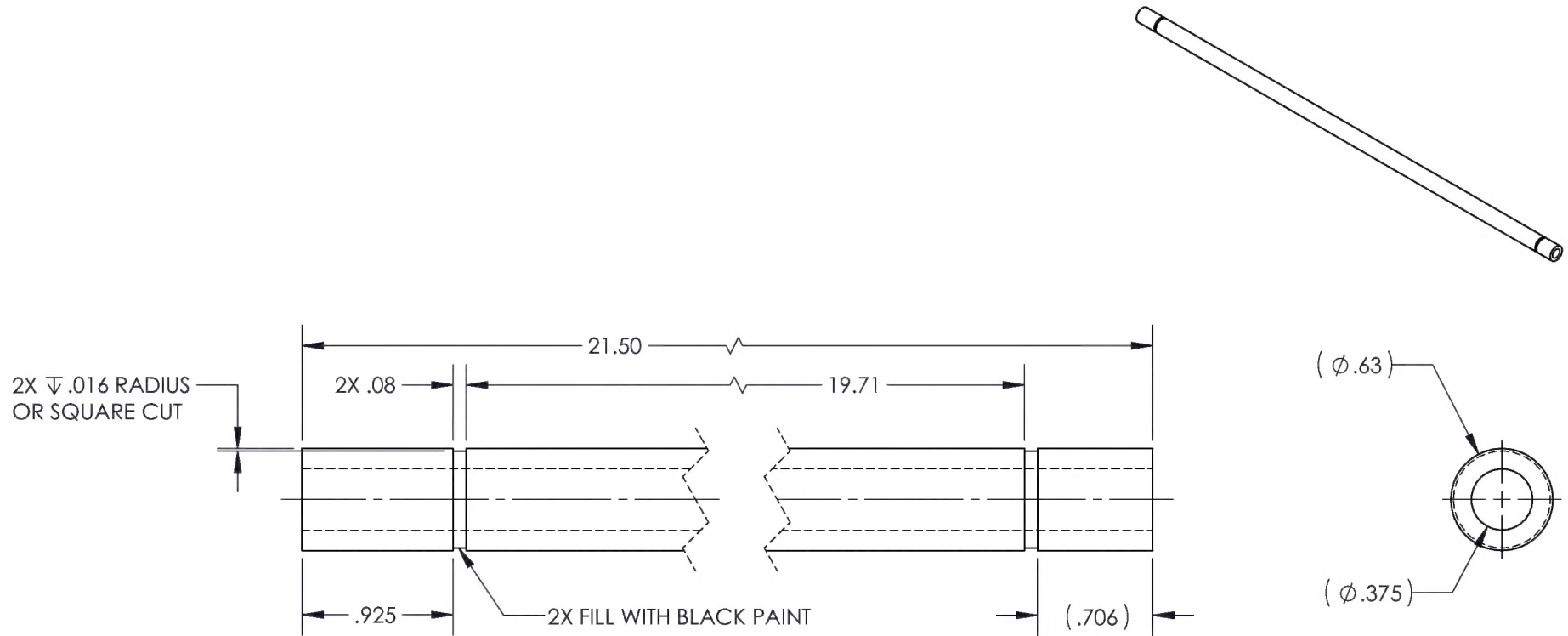
T-8816968002

FLAT BAR

DART AEROSPACE	
TITLE FUEL INJECTION PERMEABILITY TESTER	
DWG NO. T-8816968000	REV 5
MAT'L 6061	DRAWN BY: COLE
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH BLACK ANODIZE
.X ± .1	SPEC MIL-A-8625F, TYPE II, CLASS II
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	TURBOMECA ARRIEL ENGINES
SCALE 1:1	DATE 6/17/2003
SHEET 3 OF 7	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
5	14-0171	T-8816968003 CH'D DIMS WAS Ø.394 IS (Ø.375), WAS Ø.551 IS (Ø.625).	10/8/2014	DPD	JAG



UNDER REVIEW
URF 19-594 19.02.15 (MB)

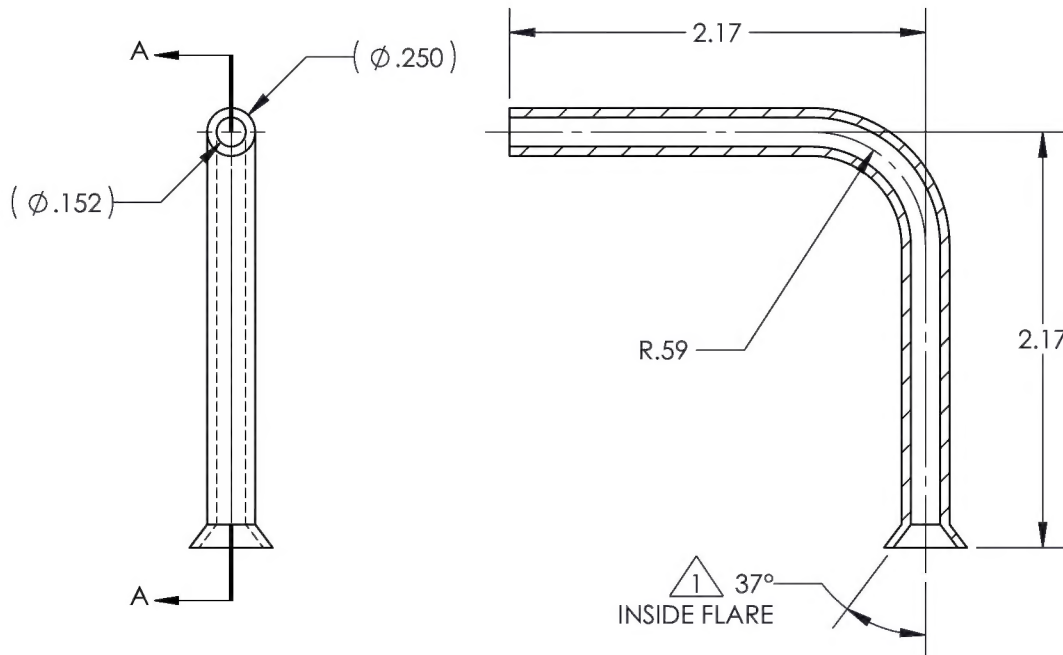
(T-8816968003)

CLEAR TUBE

DART AEROSPACE	
TITLE FUEL INJECTION PERMEABILITY TESTER	
DWG NO. T-8816968000	REV 5
MAT'L ACRYLIC	DRAWN BY: COLE
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT
.XX ± .01 ANGLES ± 5°	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
SCALE 1:1	TURBOMECA ARRIEL ENGINES
DATE 6/17/2003	SHEET 4 OF 7

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
5	14-0171	T-8816968004 ADDED NOTE TO ATTACH NUT & SLEEVE BEFORE FLARING FOR OPTIONS 1 & 2.	10/9/2014	DPD	JAG



SECTION A-A

UNDER REVIEW

URF 19-594 19.02.15 (MB)

(T-8816968004)

TUBING

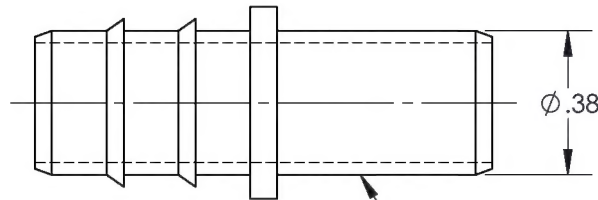
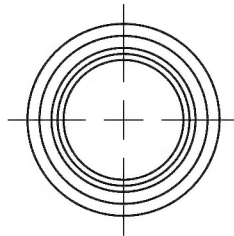
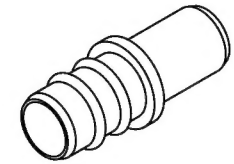
NOTE:

- △ ATTACH NUT & SLEEVE BEFORE FLARING.
 OPTION 1: T-8816968013 TUBING NUT
 NO SLEEVE
 OPTION 2: T-8816968025 TUBING NUT
 T-8816968027 TUBE SLEEVE

DART AEROSPACE	
TITLE FUEL INJECTION PERMEABILITY TESTER	
DWG NO. T-8816968000	REV 5
MAT'L S.S. SEAMLESS	DRAWN BY: COLE
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	TURBOMECA ARRIEL ENGINES
SCALE 1:1	DATE 6/17/2003
SHEET 5 OF 7	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED



BARBS REMOVED
SEAL WITH GLUE TO PART T-8816968003

UNDER REVIEW
URF 19-594 19.02.15 (MB)

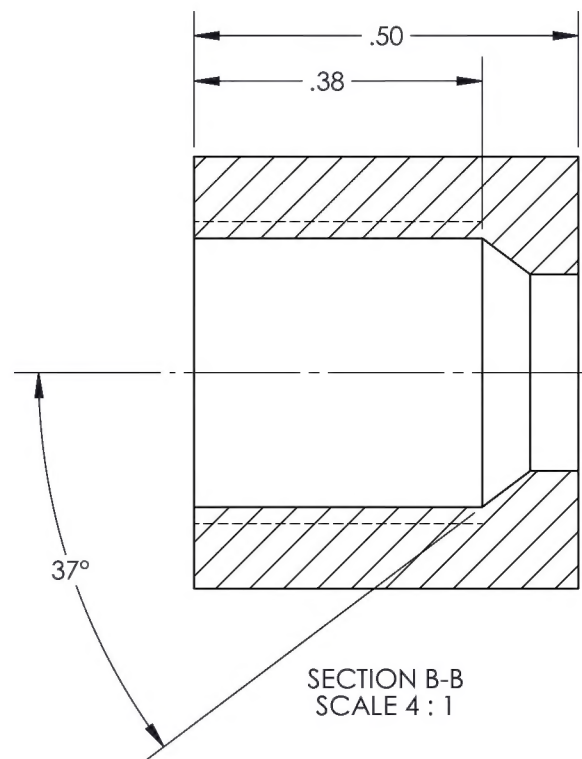
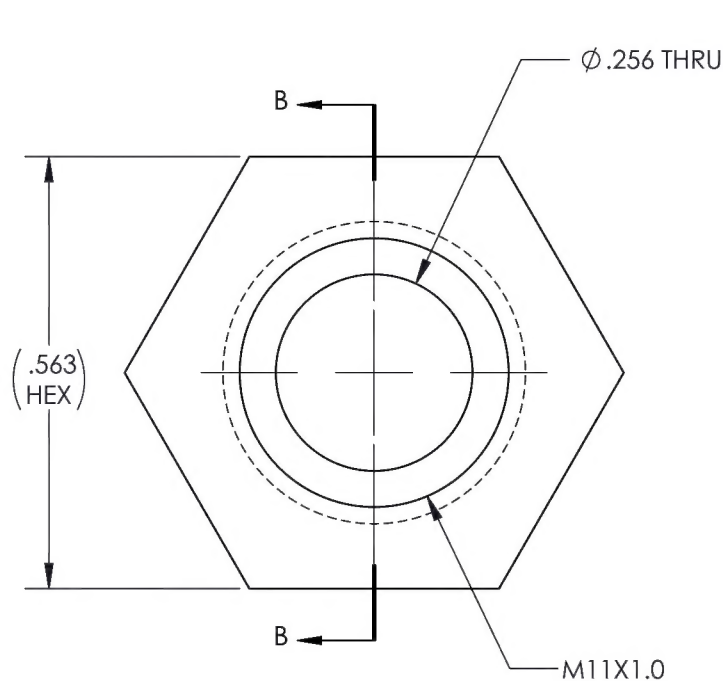
T-8816968005

BARBED HOSE ADAPTER

DART AEROSPACE	
TITLE FUEL INJECTION PERMEABILITY TESTER	
DWG NO. T-8816968000	REV 5
MAT'L BRASS	DRAWN BY:
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT
.XX ± .01 ANGLES ± 5°	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
SCALE 1:1	TURBOMECA ARRIEL ENGINES
DATE	SHEET 6 OF 7

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
4		CH'D 8816968013 TUBING NUT FROM B/O TO MANUFACTURE PER R.W.	10/8/2010	RJC	
5	14-0171	T-8816968013 CH'D DIM WAS .561 HEX IS (.563 HEX). ADDED MISSING DIM 37°.	10/9/2014	DPD	JAG



UNDER REVIEW
URF 19-594 19.02.15 (MB)

T-8816968013

TUBING NUT

DART AEROSPACE	
TITLE FUEL INJECTION PERMEABILITY TESTER	
DWG NO. T-8816968000	REV 5
MAT'L 303/304 S.S.	DRAWN BY: COLE
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	TURBOMECA ARRIEL ENGINES
SCALE 1:8	DATE 6/17/2003
SHEET 7 OF 7	